

FEDOTOV, N. M.; PUSTIL'NIY, I. M.

Sugar industry of the Tatar Economic Region. Sakh. prom. 36  
no.10:5-8 0 '62. (MIRA 15:10)

1. Tatarskiy sovet narodnogo khozyaystva.

(Tatar A.S.S.R.—Sugar industry)

64-1-12/19

AUTHOR: Pustil'nikov, M. L.

TITLE: Automatic Pressure Regulator (Avtomaticheskiy ogranichitel' davleniya)

PERIODICAL: Khimicheskaya Promyshlennost', 1958, Nr 1, pp. 51 - 51(USSR)

ABSTRACT: The device which is illustrated by two figures is in principle based on a lever system pressure gauge which is mechanically connected with a mercury contact. In the case of a pressure rise the lever of the pressure gauge lowers the mercury contact and thus interrupts the circuit of the compressor so that the latter stops working. After the pressure has dropped below the desired value the mercury contact regains its previous position, since the lever of the pressure gauge has been lowered, and again closes the circuit and the compressor again starts operation. There are 2 figures.

AVAILABLE: Library of Congress  
Card 1/1 1. Air pressure regulators-Design

PUSTIL'NIKOV, M.R.

Tectonics of western Ciscaucasia. Sov. geol. no.57:197-207 '57.  
(Caucasus, Northern--Geology, Structural) (MLRA 10:8)

PUSTIL'NIKOV, M.R.

Prospects for oil and gas bearing in the northwestern Ciscaucasia.  
Geol. nefi 1 no.3:12-17 Mr '57. (MLRA 10:8)

(Caucasus, Northern--Petroleum geology)  
(Caucasus, Northern--Gas, Natural--Geology)

FUSTIG'NEOV, M.R.; KORNEYEV, V.I.; KALPINSVICH, V.I.

New anticlinal zones of the southern margin of the western part  
of the Kuban Lowland in the light of seismic investigations.  
Geol.nefti i gaza 9 no.2:44-48 F '65.

(MIRA 18:4)

1. Trest Krasnodarneftgeofizika.

PUSIL'NIKOV, M.R.

Basic tectonic characteristics of the Yaysk-Berezanskiy gas-bearing region. Geol.nafti i gaza 3 no.8:8-12 Ag '59.  
(MIRA 12:11)

1. Trast Krasnodarneftageofizika.  
(Krasnodar Territory--Gas, Natural--Geology)

BORD, I.O.; BURLIN, Yu.K.; KOROTKOV, S.T.; PUSTIL'NIKOV, M.R.; FEDOROV, S.F.;  
KHAKIMOV, M.Yu.; SHARDANOV, A.N.

Azov-Kuban oil- and gas-bearing basin. Zakonom. razm. polezn. iskop.  
5:536-548 '62. (MIRA 15:12)

1. Moskovskiy gosudarstvennyy universitet, Krasnodarskiy sovet  
narodnogo khozyzystva (tresty "Krasnodarneft" i "Krasnodarneftegeofi-  
zika"), Institut geologii i razrabotki goryuchikh iskopayemykh AN SSSR  
i Kompleksnaya neftegazovaya geologicheskaya ekspeditsiya AN SSSR.  
(Azov-Kuban region—Petroleum geology)  
(Azov-Kuban region—Gas, Natural—Geology)

PUSTIL'NIKOV, M.R.; SAVVINA, Ye.U.; KLIMAREV, A.A.

Geological results of gravimetric investigations carried out in  
the northwestern Ciscaucasia. Geol. nefti i gaza 7 no.7:44-47  
Jl '63. (MIRA 16:7)

1. Trest Krasnodarneftegeofizika.  
(Caucasus, Northern--Gravity)

BURSHTAR, M.S.; BELOV, E.A.; GASANGUSEYNOV, G.G.; ZNAMENSKIY, V.A.;  
L'VOV, M.S.; PUSTIL'NIKOV, M.R.

Principal results of geological prospecting and problems of  
regional investigations in the Northern Caucasus. Geol.  
nefti i gaza 8 no. 1:23-29 Ja '64. (MIRA 17:5)

1. Severo-kavkazskiy sovet narodnogo khozyaystva i Vsesoyuznyy  
nauchno-issledovatel'skiy geologorazvedochnyy neftyanyy in-  
stitut.

GROSSGEYM, Vladimir Aleksandrovich; YEREMENKO, Nikolay Andreyevich;  
ZAYTSEV, Nikolay Sergeevich; ZUBOV, Ivan Petrovich; KOSYGIN,  
Yuriy Aleksandrovich; PUSTIL'NIKOV, Mark Romanovich; BOSTOVTSEV,  
Nikolay Nikitich; SLAVIN, Vladimir Il'ich; KHAIN, Viktor Yefimovich;  
KHALTURIN, Dmitriy Sergeevich; CHERVINSKAYA, Marina Vladimirovna;  
SHCHERIK, Yevgeniya Aleksandrovna; EZDRIN, Mikhail Borisovich;  
KOSYGIN, Yu.A., red.; SHOROKHOVA, L.I., ved.red.; MUKHINA, E.A.,  
tekhn.red.

[Tectonics of petroleum provinces]. Tektonika neftenosnykh  
oblastei. Moskva, Gos.nauchno-tekhn. izd-vo neft.i gorno-toplivnoi  
literatury. Vol.2 [Regional tectonics of petroleum provinces of the  
U.S.S.R.] Regional'naya tektonika neftenosnykh oblastei SSSR.  
1958. 613 p. (MIRA 11:12)

1. Chlen-korrespondent AN SSSR (for Kosygin)  
(Petroleum geology)

VASIL'YEV, V.G.; GRACHEV, G.I.; NEVOLIN, N.V.; OZERSKAYA, M.L.; PODOBA, N.V. Prinsipialni uchastiye: ALEKSEYCHIK, S.N.; GUSHKOVICH, S.N.; DIKENSHTSEYN, G.Kh.; DZVELAYA, M.F.; DRABKIN, I.Ye.; IVANOVA, M.N.; KAZARINOV, V.P.; KALININA, Y.V.; KOZLETSKO, S.P.; MEDVEDEV, V.Ya.; PUSTIL'NIKOV, M.R.; ROSTOVTSEV, N.N.; SKOELIKOVA, G.I.; STEPANOV, P.P.; TITOV, V.A.; FOTIADI, E.E.; CHIRVINSKAYA, M.V.; SHMAROVA, V.P. GRATSIANOVA, O.P., red.; BEKMAN, Yu.K., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Manual for geophysicists in four volumes] Spravochnik geofizika v chetyrekh tomakh. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gornotoplivnoi lit-ry. Vol.1. [Stratigraphy, lithology, tectonics, and physical properties of rocks] Stratigrafiya, litologiya, tektonika i fizicheskie svoystva gornyykh porod. Pod red. O.P. Gratsianov. 1960. 636 p. (MIRA 14:1)  
(Petroleum geology) (Gas, Natural--Geology)

PUSTIL'NIKOV, M.R.; RABKIN, Ya.M.

Subsurface structure of the Taman' Peninsula according to the  
data of seismic investigations. Neftegaz, geol. i geofiz.  
no.11:48-52'63 (MIRA 17:7)

1. Trest "Krasnodarneftgeofizika".

VOLODARSKIY, R.F.; PUSTIL'NIKOV, M.R.

Geological effectiveness of gravimetric methods for studying  
western Ciscaucasia. Sov. geol. 7 no.1:105-112 Ja '64.  
(MIRA 17:6)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova  
i Trest "Krasnodarneftegeofizika."

PUSTIL'NIKOV, M.L.

Automatic pressure limiter. Khim. prom. no.1:51 Ja-F '58.  
(Pressure regulators) (MIRA 11:3)

S/202/61/000/005/004/004  
A006/A101

AUTHORS: Sergiyenko, S. R., Pustil'nikova, S. D.

TITLE: On the genetic connection in the chemical structure of asphaltenes, resins, and high-molecular naphtha hydrocarbons

PERIODICAL: Akademiya nauk. Turkmenskoy SSR. Izvestiya, Seriya Fiziko-  
tekhnicheskikh, khimicheskikh i geologicheskikh nauk, no. 5, 1961,  
47-59

TEXT: An investigation was made for the purpose of bringing about the gradual transition of naphthaneous asphaltenes according to the scheme: asphaltenes → resins → hydrocarbons. The final purpose of such a transformation was to obtain pure hydrocarbon molecules where the carbon skeleton of the original asphaltene molecules had been preserved. To solve this problem the authors used the reaction of selective catalytic hydrogenation in the presence of a skeleton nickel catalyzer. The initial material were asphaltenes singled out of Romashkino (Devonian) naphtha with 1700 molecular weight and the following elementary composition: C - 84.04; H 7.96; S - 4.70; O - 3.30%. Skeleton nickel was used as catalyzer and was prepared from Ni-Al nickel alloy (50 : 50). The

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S/202/61/000/005/004/004  
A006/A101

On the genetic connection in the chemical ...

hydrogenation process was conducted in a rotating 1-liter-capacity autoclave at 150°C: 150 atm pressure for 10 hours. The amount of the catalyzer was gradually increased beginning with 150% during hydrogenation within the first 10 hours. The results obtained were analyzed. The composition and properties of hydrocarbons obtained were compared with corresponding hydrocarbon groups singled directly out of the same naphtha from which the asphaltenes had been selected. The following conclusions are made: The paraffin-cycloparaffin hydrocarbons obtained by hydrogenation of asphaltenes approach, in their composition and properties, the group of high-molecular hydrocarbons, singled out directly of naphtha. Their basic difference is a higher cyclicity (2.1 of ring per molecule against 1.2) and a small sulfur content (0.23%) corresponding to the presence of sulfurous compounds in an amount of 2.3%. Complete desulfurization of this hydrocarbon group will still increase their resemblance with an analogous hydrocarbon group contained in naphtha. 2) The group of monocycloaromatic hydrocarbons obtained by hydrogenation approaches also the composition and properties of corresponding hydrocarbons singled out of the high-molecular portion of Romashkino naphtha. The basic difference is a lesser molecular weight of the former (338 against 400) and a somewhat higher total cyclicity (2.9 against 2.7); this causes the lower content of aliphatic carbon atoms in the molecule (43

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S/202/61/000/005/004/004  
A006/A101

On the genetic connection in the chemical ...

against 56) a higher carbon content at an elementary analysis (87.37 against 85.87) and a higher specific weight ( $d_4^{20} = 0.9445$  against 0.9184). 3) The bicycloaromatic hydrocarbons obtained from asphaltene hydrogenation have very different compositions and properties than high-molecular bicycloaromatic hydrocarbons singled out of Romashkino naphtha. The former have a higher molecular weight (440 against 374) and 5.3 total cyclicity against 3.9 including that of aromatic rings (3.0 against 2.3) and cycloparaffin rings (2.3 against 1.6). These basic characteristic features determine all the other properties of bicycloaromatic hydrocarbons, as well as their structural group and elementary composition strongly differing from those of hydrocarbons singled directly out of naphtha. 4) Among the hydrocarbons produced by hydrogenation of asphaltenes, there were 42% polycycloaromatic compounds containing on the average 3.6 benzene rings per molecule. From the high-molecular portion of naphtha such compounds could not be singled out. There were 71% hydrocarbons and 29% sulfurous compounds, when assuming that the molecules of the latter contained one atom of sulfur. 5) The investigation shows that in the asphaltene molecules the polycyclic systems are the prevailing structural links. In these polycyclic structures a great part is played by the multi-nuclear condensed systems containing both purely carbocyclic (benzene and polymethylene) and heterocyclic rings which

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On the genetic connection in the chemical ...

S/202/61/000/005/004/004  
A006/A101

contain sulfur, oxygen and nitrogen atoms. 6) This first experimental transition of naphthaneous asphaltenes to resins and hydrocarbons under conditions of soft catalytic hydrogenation proves the genetic connection in the chemical structure of asphaltenes, resins and high-molecular hydrocarbons of naphtha. The analyses were carried out with the participation of Z. K. Zemskov and L. V. Ratnikov. There are 2 figures, 6 tables and 18 references (9 Soviet-bloc and 9 non-Soviet-bloc). The reference to the most recent English-language publication reads as follows: Weller, S., Pepiletz, M. J., and Friedman, S. - Ind. Eng. Chem. v. 43, no. 7, - 1951, 1972.

SUBMITTED: May 15, 1961

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Card 4/4

PETROV, Al.A.; BATALIN, O.Ye.; MIKHNOVSKAYA, A.A.; BEDOV, Yu.A.; KRASAV-  
CHENKO, M.I.; PUSTIL'NIKOVA, S.D.

"Dispersiometric coefficients" of high-boiling hydrocarbons of a  
mixed structure. Neftekhimiia 3 no.6:922-927 N-D '63. (MIRA 17:3)

1. Institut geologii i razrabotki goryuchikh iskopayemykh Gosudarst-  
vennogo komiteta SSSR po toplivnoy promyshlennosti i Leningradskiy  
gosudarstvennyy universitet im. A.A.Zhdanova.

BEDOV, Yu.A.; PUSTIL'NIKOVA, S.D.; RATNIKOVA, L.V.; PETROV, Al.A.

Production of petroleum hydrocarbons from aliphatic acids by  
thermal catalytic processes. Neftekhimia 2 no.3:313-317  
My-Je '62. (MIRA 15:8)

1. Institut geologii i razrabotki goryuchikh iskopayemykh.  
(Hydrocarbons) (Acids, Fatty)

SERGIYENKO, S.R.; PUSTIL'NIKOVA, S.D.

Genetic relationship in the chemical composition of asphaltenes,  
resins, and high molecular petroleum hydrocarbons. Izv. AN Turk.  
SSR. Ser. fiz.-tekh., khim. i geol.nauk no.5:47-60 '61.

(MIRA 14:11)

(Asphaltenes) (Hydrogenation)



PUSTIN, N.A.

Anti-Pavlov conceptions of cortical internal inhibition. J.Physiol.USSR  
'52, 38, 543-552. (MIRA 5:11)  
(BA - AIII Ap '53:441)

PUSTINA.

Opinions of industrial circles on the reform of college education. p.159.  
(Slaoproudý Obzor, Vol. 18, No. 3, Mar. 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) IC. Vol. 6, No. 9, Sept. 1957. Uncl.

FUSTINA, F.

Planting of poplars from the point of view of water-resources economy.  
p. 383.

VODNI HOSPODARSTVI. (Ministerstvo energetiky a vodniho hospodarstvi a  
Vedecka technicka spolecnost pro vodni hospodarstvi) Praha, Czechoslovakia.  
No. 9, Sept. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11,  
November 1959.

Uncl.

PUSTINA, F.

Electroluminescence is finding practical applications. p. 179.  
(SDBLOVACI TECHNIKA, Vol. 5, No. 6, June 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (REAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

FUSTINA, F.

What is your opinion of technical literature already published, or which should be published? p. 136. (SDELOVACI TECHNIKA, Vol. 5, No. 6, June 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EMAL) IS, Vol. 6, No. 12, Dec 1957. Uncl.

IUSTINA, F.

The number of patents, as an index of the development of low voltage electrical engineering in the USA and in Czechoslovakia.

p. 279 (Sdelovaci Technika) Vol. 5, no. 9, Sept. 1957, Praha, Czechoslovakia

SC: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

PUSTINA, F.

Standardization + understanding-low production cost+prompt deliveries even in the weak current industry.

P. 236, (Sdelovaci Technika) Vol. 5, no. 8, Aug. 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) Vol. 6, No. 11 November 1957

PUSTINA, F.

Pustina, F.: Tubl Book Month. 1956 p. 121  
SLAEOPROUDY OEFZOR. Vol. 17, No. 3, March, 1956, Prague.

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 5, No. 6, June, 1956, Uncl.

TARAKANOV, G.P.; PUSTIL'NIKOV, M.V.

The KTS-5-10 and KTS-3-5 mobile tower cranes. *Bul.tekh.-*  
*ekon.inform.* no.7:37-40 '60. (MIRA 13:7)  
(Cranes, derricks, etc.)

PUSTIL'NIKOV, M.V., inzh.

The KTS-3-5 tower crane. Transp.stroi. 10 no.3:38-39  
Mr '60. (MIRA 13:6)  
(Cranes, darricks, etc.)

PUSTINOVA, Ludmila

Evaluation of the profit of railroads. Doprava no.11:396-397  
'62.

1. -Statni banka ceskoslovenska, Olomouc.

PUSTINSKIY, I., inzhener-podpolkovnik

Selecting operating frequencies for small radio stations. Voen.  
sviaz. 16 no. 6:21-23 Je '58. (MIRA 11:?)  
(Radio, Military)



PUTNIN'SH, V.Ya. [Putnins, V.], inzh.

Composite distance-type protection system with phase limitation  
using transistors. Izv. vys. ucheb. zav.; energ. 7 no.9:1-6 S  
'62. (MIRA 17:11)

1. Nizhskiy politekhnicheskiiy institut. Predstavlena kafedroy  
elektricheskikh stantsiy.

POLAND/Chemical Technology - Chemical Products and Their  
Applications - Electrochemical Industries.  
Electroplating, Chemical Sources of Electrical  
Current.

H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 36884

Author : Wirbibis, S., Pusto, A.R.

Inst : -

Title : Advantages of Galvanic Plating Formed by Means of  
Reversible Current.

Orig Pub : Przegł Mech., 1957, 16, No 8, 322-325

Abstract : Application of reversible current for deposition of gal-  
vanic coatings (C), permits considerable improvement in  
latter's quality, especially in the case of thick  
coatings. Without shielding of sharp edges and protru-  
sions of objects, one may obtain even and smooth (C)  
on all surfaces. Such (C) are distinguished by negligi-  
ble porosity and by a great corrosion resistance.

Card 1/2

POLAND/Chemical Technology - Chemical Products and Their  
Applications - Electrochemical Industries.  
Electroplating, Chemical Sources of Electrical  
Current.

E.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 36884

The positive effect of the reversible current is more pronounced in cyanic than in acid-type electrolytes. The authors have constructed a device, which permits automatic switching of DC flow direction in given and easily controlled time intervals. By means of this device copper plating on several steel objects is readily accomplished from a solution of the following composition (g/l): metallic Cu - 60, free KCN - 10, KOH - 40.

Card 2/2

24

PUSTO B. V.

78

CH

Column for the synthesis of ammonia. B. V. Pusto-6  
vol. U.S.S.R. 67,255, Oct. 31, 1946. A novel design  
of the catalyst space in the column is described. M. H.

TSILIPOTKINA, M.V.; TAGER, A.A.; PETROV, B.S. [deceased];  
PUSTOBAYEVA, G.

Evaluation of the packing density of solid polymer chains.  
Part 5: Determination of the specific surface area of polymers  
by means of nitrogen vapor sorption. Vysokom. soed. 4  
no.12:1844-1850 D '62. (MIRA 15:12)

1. Ural'skiy gosudarstvennyy universitet imeni A.M. Gor'kogo.  
(Polymers) (Nitrogen) (Sorption)

L 4112-66 EWT(1)/EWT(m)/EPF(c)/ETC/EPF(n)-2/EMP(t)/EMP(b)/EMG(m)/EPA(w)-2 IJP(c)

ACCESSION NR: AP5025995 JD/AT UR/0294/65/003/005/0799/0800

533.932:546.293

AUTHOR: Pustogarov, A. V. (Moscow); Yakovlev, Ye. A. (Moscow)

TITLE: The electric conductivity of an argon plasma

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 5, 1965, 799-800

TOPIC TAGS: electric conductivity, argon, plasma physics

ABSTRACT: This article is commentary on various published methods of calculating the electric resistance of an argon plasma, and contains no original experimental data. It consists of a comparative calculation by a formula given in Ginzburg, V. L., and Gurevich, A. V., Uspekhi fiz. nauk, 70, 201 (1960), and by the following expression:

$$\sigma = \frac{e^2 n_e}{m_e (8kT/\pi m_e)^{1/2}} \bar{\lambda}_e = 3.78 \cdot 10^{-4} \frac{n_e}{\sqrt{T}} \left( n_e Q_{ee} + Q_{ei} \sum_{i=1}^m n_i Z_i^2 \right)^{-1} \mu\Omega/m. \quad (1)$$

where e is the charge on an electron; m<sub>e</sub> is the mass of an electron;  $\bar{\lambda}_e$  is the Card 1/2

L 4112-66

ACCESSION NR: AP5025995

mean length of the free path of an electron;  $k$  is the Boltzmann constant;  $n_0$ ,  $n_e$ , and  $n_i^{(z)}$  are the concentrations of atoms, electrons, and  $Z$ -charged ions,  $\text{cm}^2$ ;  $Q_{e0}$  is the effective cross section of electron-atom interaction,  $\text{cm}^2$ ;  $Q_{ei}$  is the effective cross section of electron-ion interaction,  $\text{cm}^2$ ;  $Z$  is the charge on an ion; and,  $T$  is the temperature,  $K$ . The comparison indicates that values of the electric conductivity of argon which are closer to the actual situation are obtained by the formula cited above and the Spitzer expression for  $Q_{ei}$ , rather than by the formula of Ginzburg and Gurevich. Orig. art. has: 2 formulas and 3 figures

ASSOCIATION: None

SUBMITTED: 10Apr64

ENCL: 00

SUB CODE: ME

NR REF SOV: 003

OTHER: 004

Card 2/2

L 45621-65 EPF(c)/EFF(n)-2/EPR/EWT(m)/EWP(b)/EWP(t) Pr-4/PS-4/Pu-4 IJP(c) JD

ACCESSION NR: AP5006466

8/0294/65/003/001/0028/0032

AUTHOR: Pustogarov, A. V. (Moscow)

21

26  
B

TITLE: Calculation of arc-column parameters in an argon atmosphere

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 1, 1965, 28-32

TOPIC TAGS: arc discharge, arc column, arc discharge parameter, voltage current characteristic, arc power consumption

ABSTRACT: The energy balance equation for a cylindrical arc column of unit length, without account of radiative losses, is solved by a refinement of a method first used by H. Maecker (Z. Phys. v. B158, 392, 1960). It is shown that Maecker's procedure can describe only the descending branch of the current-voltage characteristic of the arc. Specific calculations are made of the parameters of a cylindrical column in an argon atmosphere at a pressure  $2 \times 10^4 \text{ N/m}^2$  with temperature  $(8 - 20) \times 10^3 \text{ }^\circ\text{K}$ . It is concluded from the analysis of the solution of the energy balance equation that at constant pressure the electric power consumed is a function of only the temperature on the axis and does not depend on the radius or

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L 45621-65

ACCESSION NR: AP5006466

on the wall temperature of the channel. Orig. art. has: 5 figures and 4 formulas.

ASSOCIATION: None

SUBMITTED: 22May64

ENCL: 00

SUB CODE: EE, IO

NR REF SCV: 002

OTHER: 003

Card 2/27B

GOPAK, A.K.; PUSTOKHOD, G.P.

Effect of the temperature of defecation saturation and of the amount of added lime on the juice content after saturation during the processing of raw cane sugar. Sakh.prom.35 no.3:14-15 Mr '61.  
(MIRA 14:3)

1. Shpolyanskaya gruppovaya laboratoriya.  
(Sugar manufacture)

PIODIENOV, F. I.

The population census Moskva, Mos. sbts.-ekon. ind-vo, 1936. 206 p. (19-39531)

HA37.295P8

1. Russia - Census. 2. Census. I. Voblyi, V. K.

RUMYANTSEV, O.M., redaktor; KORETS'KIY, L.M., redaktor; KUGUKALO, I.A., redaktor; PUSTOKHOD, P.I., redaktor; ROMANENKO, I.N., redaktor; MUSNIK, N.I., redaktor; TURBOVS'KIY, I.L., tekhnicheskiy redaktor.

[Outline of economic geography of the Ukrainian Soviet Socialist Republic] Narysy ekonomichnoi geografii Ukrain's'koi Radians'koi Sotsialistychnoi Respubliky. Kyiv, Vyd-vo Akademii nauk Ukrain's'koi RSR. Vol. 2. 1952. 566 p. (MLRA 8:2)

1. Akademiya nauk URSR, Kiyev, Institut ekonomiki.  
(Ukraine--Economic geography)

PUSTOKHOD, P.I.; DARAGAN, M.V.

Development of Soviet socialist culture in the Ukrainian S.S.R.  
Visnyk AN URSR 24 no.11:44-55 N '52. (MIRA 9:9)  
(Ukraine--Culture)

PUSTOLA, Jerzy, mgr inż.

Motors with printed rotator wirings. Wiad elektrotechn 23 no.6:  
184-186 Je '61.

PUSTOLA, Jwrzy, mgr. inz.

Operational reliability as a fundamental criterion in designing  
commonly used motors. Wiad elektrotechn 30 no.8:259-260  
Ag '62.

FUSTOLA, J.

Testing motors of fractional power. p. 74, Vol. 15, no. 4, April 1955, WIADOMOSCI  
ELECTROTECHNICZNE

SO:MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (BEAL), LC, Vol. 4, No. 9,  
Sept. 1955, Uncl.

PUSTOLA, Jerzy, mgr inz.; KOZIEJ, Eugeniusz, mgr inz.

Universal frequency converter for laboratory use.  
Pomiary 9 no.6:259-260 Je '63.

ACC NR: AP7001176

SOURCE CODE: PO/0031/66/011/004/0491/0504

AUTHOR: Pustola, Jerzy -- Pustola, Ye.

ORG: Institute of Automation, PAN (Instytut Automatyki PAN)

TITLE: Basic properties of d-c motors with printed rotors designed for automatic control systems

SOURCE: Archiwum automatyki i telemekhaniki, v. 11, no. 4, 1966, 491-504

TOPIC TAGS: automatic control system, ~~automation~~, ~~telemechanics~~, dc shunt motor, printed rotor, ~~winding~~, magnetic circuit ~~with axial air gap~~, ~~brush friction losses~~

ABSTRACT: The operation of a shunt motor with a printed rotor is described, in consideration of the influence of the rotor's shape on the moment of inertia. A method of computing the windings of the printed rotor and of a magnetic circuit with an axial air gap is given, taking the armature reaction into account. Motor efficiency and losses were studied, based on the performance of a model motor and brush friction losses were given special attention. Orig. art. has: 17 figures, 3 tables, and 40 formulas. [Based on author's abstract] [DR]

Card 1/1 SUB CODE: 09/ SUBM DATE: 12Mar66/ORIG REF: 003/OTH REF: 004/

PUSTOLA, Jerzy, mgr., inż.

Problems connected with the Polish production of fractional horsepower motors. Przegl elektrotechn 37 no.6:243-247 '61.

SOKOLOV, Mstislav Leonidovich; PUSHTORSKIY, Ye.I., red.; GALAKTIONOVA,  
Ye.N., tekhn.red.

[Engineering research for bridges] Issledovaniia mostovykh pere-  
khodov. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transp.  
i shosseinykh dorog RSFSR, 1959. 168 p. (MIRA 12:3)  
(Bridges)

PUSHTORSKIY, Yevgeniy Ivanovich, inzh.; KUZIN, Nikolay Alekseyevich, inzh.;  
KUZNETSOV, I.A., red.; VOLKOV, S.V., tekhn. red.

[Engineering research for bridges in metropolitan areas] *Issledovanie*  
*mostovykh perekhodov v gorodakh. Moskva, Izd-vo M-va kommun. khoz.*  
RSFSR, 1958. 181 p. (MIRA 11:10)

(Bridges)

PUSHTORSKIY, Ye.I., inzh. [translator]; YARTSEV, N.A., inzh. [translator];  
KUZNETSOV, I.A., red.; VARGANOVA, A.N., red.izd-va; VOLKOV, S.V.,  
tekh.n.red.

[Bridges of prestressed reinforced concrete; a collection of  
articles from foreign journals] Mosty iz napriazhenno-armirovannogo  
betona; sbornik statei iz inostrannykh zhurnalov. Perevod E.I.  
Pushtorskogo i N.A.Yartseva. Moskva, Izd-vo M-va kommun. khoz.  
RSFSR, 1957. 115 p. (MIRA 11:2)  
(Bridges, Concrete)

FUSKAS, ARNO.

Priatelstva na lane. [Vyd. 1.] Bratislava, Statne telovychovne nakl.,  
1954. 142 p. [Friendships on a rope. 1st ed. illus.]

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

FUST, L.

Determining the position of substituting mass and natural vibration in machine foundations. p. 310. (Strojirenstvi, Vol. 7, No. 4, Apr 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

PUSTINA, F.

Weak-current electrical engineering, an important source of foreign exchange in the export of the German Democratic Republic. p. 76.

(Sdelovaci Technika. Vol. 5, no. 3, Mar. 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

PUSTOLA, J.

Fractional-horsepower motors and electric home appliances at the International  
Poznzn Fair. p. 215.  
(WIADOMOSCI ELEKTROTECHNICZNE. Vol. 16, no. 9, Sept. 1956, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957.  
Uncl.

L 04117-67

ACC NR: AP6031781 (AM) SOURCE CODE: PO/0019/66/015/002/0277/0300

AUTHOR: Pustola, J.

ORG: Institute of Automation, PAN (Instytut Automatyki PAN)

TITLE: Commutation losses in a single-phase series commutator motor 21

SOURCE: Archiwum elektrotechniki, v. 15, no. 2, 1966, 277-300

TOPIC TAGS: commutator motor, commutation speed

ABSTRACT: The occurrence of losses in winding sections short-circuited by brushes during commutation as a function of the rotational speed is investigated both experimentally and analytically. Losses in commutation sections with an immobile rotor and those occurring during its rotation were investigated separately for the following two cases: a) when the working current does not pass through the rotor; b) when the working current passes through the rotor (normal operation of the motor). The author presents an experimental graph and theoretical proof showing that the losses in the short-circuited winding sections decrease with an increase in rotation speed. Orig. art. has: 22 figures and 49 formulas. [Based on author's abstract]  
SUB CODE: 09/ SUBM DATE: 02Apr65/ ORIG REF: 002/ OTH REF: 004/

Card 1/1

kh

UDC: 621.313.36:621.3.017.4

5  
B.

FUSTOLA, Jerzy, mgr. inż.

A noiseless inductor with adjustable slit. Wind  
elektrotechn 30 no.4:113-114. Ap '62.

TROYANKIN, Yu.V.; KALGANOVA, V.I.; FUSTOSHILO, L.T.

Hydrodynamics of a melt in a cyclone-type furnace with a  
settling tank. TSvet. met. 38 no.8:42-49 Ag '65.

(MIRA 18:9)

I 60357-65 EWT(1)/EPA(s)-2/EWT(m)/EWP(t)/EWP(b) Pt-7/P1-4 IJP(c)

JD/GG

ACCESSION NR: AP5018315

UR/0057/65/035/007/1319/1320  
535.378

AUTHOR: Myazdrikov, O. A.; Nikolayev, O. S.; Pustoshkin, B. N.; Trofimov, V. M.

TITLE: Experimental investigation of mechanical excitation of phosphor suspen-  
sions in solid dielectrics *al*

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 7, 1965, 1319-1320

TOPIC TAGS: triboluminescence, luminescent material, mechanical stress, zinc sulfide *21*

ABSTRACT: The authors have dropped steel balls onto the back side of electro-  
luminescent panels and observed the resulting flashes with a photomultiplier.  
The flashes were approximately exponential with a rise time of  $10^{-4}$  sec and a  
decay time of  $10^{-3}$  sec. The flash intensity was proportional to the energy of  
the ball at impact, the proportionality constant depending on the nature of the  
phosphor and the dielectric in which it is suspended, and on the type of photo-  
multiplier employed and its operating conditions. Data are presented graphically  
for a ZnS phosphor activated with 0.8% Mg and 0.1% Cu and suspended in a 50

Card 1/2

I 60357-65

ACCESSION NR: AP5018315

micron thick polystyrene film. It is concluded that an impact energy of 0.2 erg could be detected. Varying the temperature from - 40 to + 50°C did not affect the results. "The authors thank Professor D.N.Nasledov for discussing the results and for advice in planning further investigations." Orig. art. has: 1 formula and 1 figure.

ASSOCIATION: Leningradskiy institut aviatsionnogo priborostroyeniya (Leningrad Institute of Aviation Instruments)

SUBMITTED: 15 Sep 64

ENCL: 00

SUB CODE: SS, OP

NO REF SOV: 001

OTHER: 004

Card 2/2

PUSTOSHKIN, B. N., inzh.

Self-contained charging device for the DK-0,2 dose meter,  
Izv. LETI 59 no.46:300-302 '62. (MIRA 15:10)

(Radiation—Measurement)

S/271/63/000/003/008/049  
A060/A126

AUTHOR: Pustoshkin, B.N.

TITLE: Individual unit for ДК-0,2 (DK-0.2) dosimeter

PERIODICAL: Referativnyy zhurnal, Avtomatika, telemekhanika i vychislitel'naya tekhnika, no. 3, 1963, 30, abstract 3A167 (Izv. Leningr. elektrotekhn. in-ta, 1961, no. 46, 300 - 302)

TEXT: The paper gives a brief description of a device for charging dosimeters DK-02 elaborated at the department of safety engineering of the Leningrad Electrical Engineering institute. The operation of the device is based on the application of induction of electrostatic charge. The device consists of a casing (of organic glass) inside which chamois is glued in. In order to electrify the chamois, a polystyrene tube is inserted and then removed from the casing. After that the dosimeter is inserted in its place. The bottom of the casing is directed towards any light source, after which the dosimeter is extracted from the charging device. There are 2 figures.

[Abstracter's note: Complete translation]

V. G.

Card 1/1

MANOYLOV, S.Ye.; CHAMIN, N.N.; DASHKEVICH, L.B.; VOLOKHONSKIY, A.G.;  
PUSTOSHKIN, G.I.

Synthesis of some derivatives of adenine. Trudy Len.khim.-farm.  
inst. no.13:49-54 '62. (MIRA 15:10)

1. Kafedra biokhimii (zav. prof. S.Ye.Manoylov) Leningradskogo  
khimiko-farmatsevticheskogo instituta.  
(ADENINE)

REYSHAKHRIT, L.S.; PUSTOSHKINA, M.P.; TIKHONOVA, Z.I.

Amperometric titration of some cations with trilon B on a rotating  
microplatinum electrode. Vest. LCU 19 no.4:122-125 '64.

(MIRA 17:3)

KLYACHKO, L.S., inzh.; GANES, I.L., inzh.; ALEKSEYEVA, L.N., inzh.;  
PUSTOSHNAYA, V.F., inzh.

New standard for air distributors. Mont. i spets. rab. v strof.  
23 no.11:18-19 N '61. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot.  
(Air conditioning---Equipment and supplies)

PUSTOSHNAYA, V.F.

New types of air distributors for industrial ventilation  
systems. Sbor. trud. VNIIGS no.18:48-59 '63. (MIRA 18:9)

LAKTYUSHKIN, V.A., kand.tekhn.nauk [deceased]; ANSHELES, A.I., inzh.;  
PUSTOSHNAYA, V.F., inzh.

Electric-panel heating system. Nov.tekh.mont.i spets.rab.v  
stroi. 21 no.9:18-20 S '59. (MIRA 12:11)  
(Radiant heating) (Electric heating)

BYKHOVSKIY, Izrail' Adol'fovich; PUSTOSHNIY, A.F., otvetstvennyy redaktor;  
MISHKEVICH G.I.. redaktor; FRUMKIN, P.S., tekhnicheskiiy redaktor.

[How the water-jet engine was developed] Kak sozdavalsia vodometnyi  
dvizhitel'. Leningrad, Gos.soiuznoe iad-vo sudostroit.promyshl.  
1956. 134 p. (MIRA 10:6)

(Water-jet)

UXHANOV, A.G., kand. tekhn. nauk; LAKTYUSHKIN, V.A., kand. tekhn. nauk;  
PUSHOSHNAYA, V.F., inzh.

The VNIIGS-300 air heating unit. Sbor. trud. VNIIGS no.9:46-58  
'58. (MIRA 12:7)

(Hot-air heating)

L 23870-66 EWT(m)/EWP(t) IJP(c) JD/WB/JH

ACC NR: AP6008624

SOURCE CODE: UR/0365/65/001/006/0677/0680

AUTHORS: Pustotina, S. R.; Tolkachev, V. Ye.; Rafalovich, D. M.; Roykh, I. L.

ORG: Odessa Technological Institute im. M. V. Lomonosov (Odesskiy tekhnologicheskiy institut)

TITLE: Oxidation of Mg, Zn, and Cd films formed by vacuum condensation in a humid atmosphere

SOURCE: Zashchita metallov, v. 1, no. 6, 1965, 677-680

TOPIC TAGS: protective coating, metal film, corrosion resistance, magnesium, zinc, cadmium, metal oxidation

ABSTRACT: Oxidation of Mg, Zn, and Cd vacuum condensates has been studied at various values of relative humidity. The information is of interest because the quality of the metallic films obtained by vacuum spraying is determined mainly by their atmospheric corrosion stability. The investigation was performed by gravimetric and polarized light methods, varying the relative humidity from 0 to 99%, at a temperature of 20C. The results of the study are summarized in Figs. 1 and 2. It was established that the increase of weight and the thickness of the oxidized layer are 4 and 2 times greater for Mg and Cd, respectively, than for Zn. At a relative humidity < 80% for Cd and Zn and < 70% for Mg, the protective oxide films are formed in 1 to 2 days of oxidation. The corrosion rate for all 3 condensates increases rapidly at relative

Card 1/2

UDC: 620.193.2

L 23870-66

ACC NR: AP6008624

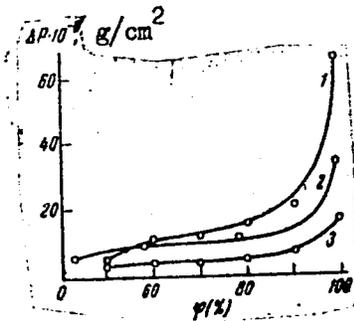


Fig. 1. Weight increase per unit of the surface of the condensate as a function of the relative humidity, during one week of oxidation: 1 - Mg, 2 - Cd, 3 - Zn.

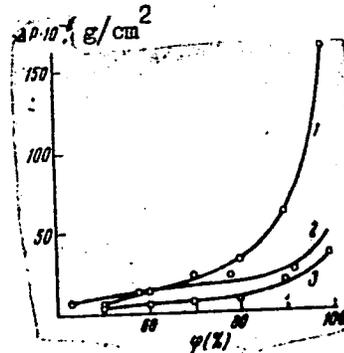


Fig. 2. Thickness of the oxide film formed during the one week of condensate oxidation, as a function of the relative humidity: 1 - Mg, 2 - Cd, 3 - Zn.

humidity,  $r$ , above 90%. At these values of  $r$ , a porous layer with a large surface area is formed on the metal. Orig. art. has: 5 figures.

SUB CODE: 07, 11/ SUBM DATE: 01Mar65/ ORIG REF: 003/ OTH REF: 010

Card 2/2 *ddr*

PUSIOTINA, S.P.; TANKOVA, M.Ye.; PAVLOVA, D.M.; BAKIN, A.I.

Oxidation of various Mg, Zn, and Cu compounds in a humid atmosphere. Zhurnal Khim. Fiz. 1970, 42, 105.

(MOS) 18, 110

1. Odesskiy tekhnologicheskiy institut N.V. Tomonashova.

CATEGORY :

AD. JOUR. : PERIod., No. 19, 1958, No. 87357

ORIG. PUB. : Journal of the American Institute of  
Pharmacology and Experimental Therapeutics  
Institution to Control Drug Abuse.

ORIG. PUB. : pp.: Kратkoye soobshcheniye o poverzhennoy razvedke.  
Vses. n.-i. in-va maslichn. i erimchaslichn.

ABSTRACT :

SOROKINA, V.A.; PUSTOVA, I.V.

Review of G.F.Konstantinov and I.IA.Bychkov's book "The feldsher-  
midwife station in the village." V.A.Sorokina, I.V.Pustova. Med.  
sestra no.3:27-29 Mr '55. (MLRA 8:5)

(OBSTETRICS)  
(KONSTANTINOV, G.F.)  
(BYCHKOV, I.IA.)

PUSTOVACHENKO, A.L., zasluzhennyy vrach RSFSR

Closure of a residual cavity following cavernotomy with a fascial-fatty pedicle flap [with summary in French]. Probl.tub. 36 no.1: 112-113 '58. (MIRA 11:4)

1. Iz bol'nitsy No.7 Komsomol'ska-na-Amure (glavnyy vrach O.F. Korolevich)

(TUBERCULOSIS, PULMONARY, surg.)

cavernotomy, closure of residual cavity with fascial-fatty pedicle flap (Rus))

ROSTOVTSEV, N.; DOBRYNIN, P.; TIKHOMIROV, V.; LOGACHEV, A.; SHAKUN, V.;  
GRUDEV, D.; KUDRYAVTSEV, P.; MALEYEV, M.; SOKOV, N.; KORNIKOV, V.;  
TOLOKONNIKOV, A.; PUSTOVALOV, F.; RED'KIN, A.; BLOMKVIST, M.;  
PETROV, N.; SHUBSKIY, I.; SEMENOV, S.; POPOV, G.; BRODOV, K.;  
KORENEV, P.

Professor M.N. IAKovlev; obituary. Zhivotnovodstvo 19 no.12:90  
D '57. (MIRA 10:12)

(IAkovlev, Mitrofan Nikolaevich, 1878-1957)

PUSTOVALOV, A.I.; SMAGLYUK, L.G.

Ways for preventing accidents in underground transportation.  
Bezop.truda v prom. 6 no.3:9 Mr '62. (MIRA 15:3)

1. Glavnyy inzhener Maslyanskogo rudnika Zyryanovskogo svintsovogo kombinata Vostochno-Kazakhstanskogo sovnarkhoza (for Pustovalov).
2. Nachal'nik transportnogo uchastka Maslyanskogo rudnika Zyryanovskogo svintsovogo kombinata Vostochno-Kazakhstanskogo sovnarkhoza (for Smaglyuk).  
(Mine Haulage--Safety measures)

MAYYER, R.M., inzh.; PROKHOROV, G.N., inzh.; PUSTOVALOV, A.I., inzh.;  
PROKHOROV, N.S., tekhnik-mekhanik

Wedge connection of a removable blade with a scraper. Gor.  
zhur. no.11:73 N '64. (MIRA 18:2)

VORONIN, V.S.; KRAKHIN, N.S.; SHILKIN, P.I.; PUSTOVALOV, A.I.

Supports with a sprayed concrete foundation. Gor. zhur.  
no.1:17-22 Ja '62. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnykh metallov, g. Ust'-Kamenogorsk (for Voronin, Krakhin, Shilkin).
2. Maslyanskiy rudnik (for Pustovalov).  
(Mine timbering) (Concrete)

AVDEYEV, Yu.G.; VORONIN, V.S.; KOROSTYLEV, N.P.; SMIRNOV, V.G.;  
PUSTOVALOV, A.I.; CHEBOTYREV, B.A.; ZENKOV, B.N.; KARABACH, T.L.

Determining the efficiency of various ways of charging boreholes  
along the contour of a mine working. Shakht. stroi. 8 no.10:  
19-21 0 '64. (MIRA 17:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnoy metallurgii (for Avdeyev, Voronin, Korostylev, Smirnov).
2. Rudnik imeni XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuzu Zyryanovskogo kombinata (for Pustovalov, Chebotyrev, Zenkov, Karabach).

IMENITOV, V.R., prof., doktor tekhn.nauk; PUSTOVALOV, A.I.

Method of ore breaking under compression. Ger.zhur. no.12:19-23  
D '64. (MIRA 18:1)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki  
(for Imenitov). 2. Glavnyy inzh. rudnika im. XXII s"yezda Kommu-  
nisticheskoy partii Sovetskogo Soyuza Zyryanovskogo svintsovogo  
kombinata (for Pustovalov).

PROKOF'YEV, V. P., starshiy nauchnyy sotrudnik; PUSTOVALOV, A. I.

Using pressure-suction ventilation techniques in nonferrous metal mines. Bezop. truda v prom. 6 no.9:10-11 S '62.  
(MIRA 16:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnykh metallov (for Prokof'yev). 2. Glavnyy inzh. rudnika im. XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuza (for Pustovalov).

(Mine ventilation)

BARON, L.I., prof., doktor tekhn.nauk; RODIONOV, N.S., kand.tekhn.nauk;  
PUSTOVALOV, A.I.,; BEKTYBAYEV, A.D., gornyy inzh.

Determination of engineering characteristics of ores and rocks  
at the 22nd Congress of the C.P.S.U. Mine. Gor.zhur. no.4:39-41  
Ap '64. (MIRA 17:4)

1. Institut gornogo dela imeni A.A.Skochinskogo (for Baron, Rodionov).
2. Glavnyy inzhener rudnika imeni XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuz (for Pustovalov).
3. Altayskiy gornometallurgicheskiy nauchno-issledovatel'skiy institut AN Kazakhskoy SSR, Ust'-Kamenogorsk (for Bektybayev).

RYBERT, V.F., gornyy inzh.; PUSTOVALOV, A.I., gornyy inzh.; PONOMAREV, L.F.,  
gornyy inzh.; YEROFEYEV, I.Ye., gornyy inzh.; YERMOLAYEV, A.G., gor-  
nyy inzh.

Making use of industrial potentialities in a mine of communist  
labor. Gor.zhur. no.1:6-9 Ja '64. (MIRA 17:3)

1. Rudnik imeni XXII s"yezda Kommunisticheskoy partii Sovetskogo  
Soyuza Zyryanovskogo kombinata.

GREBENYUK, V.G., gornyy inzh.; DENISENKO, A.G., gornyy inzh.;  
PUSTOVALOV, A.I., gornyy inzh.; PROKOF'YEV, V.P.

Using automatic ventilation doors. ,Gor.zhur. no.5:74-75 My '62.  
(MIRA 16:1)

1. Maslyanskiy rudnik, g. Zyryanovsk (for Grebenyuk, Denisenko,  
Pustovalov). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut  
tsvetnykh metallov, Ust'-Kamenogorsk (for Prokof'yev).  
(Mine ventilation) (Automatic control)

GREBENYUK, V.A., gornyy inzhener; YEROFEYEV, I.Ye., gornyy inzhener;  
PUSTOVALOV, A.I., gornyy inzhener; CHEBOTAREV, B.A., gornyy  
inzhener

Use of distributed charges in drifting. Gor. zhur. no.1:70-71  
Ja '62. (MIRA 15:7)

1. Zyryanovskiy svintsovoyy kombinat.  
(Zyryanovsk District--Blasting)  
(Mining engineering)

PUSTOVALOV, A.I.

Optimal thickness of the layer being formed by caving in  
a confined area. Gor. zhur. no.9:18-20 S '64.

(MIRA 17:12)

1. Glavnyy inzh. rudnika im. XXII s"yezda Kommunisticheskoy  
partii Sovetskogo Soyuzu Zyryanovskogo svintsovogo kombinata.

GREBENYUK, V.A.; PUSTOVALOV, A.I.; YEROFEYEV, I.Ye.; KARABACH,  
T.L.; TURGAMBAYEV, B.M.; BOSYAKOV, P.Ye.; YERMOLAYEV,  
A.G.; FOMENKO, V.D.; YEGOROV, A.A.; GROMOV, D.I.;  
ZHUYKO, Yu.P.; PANOV, S.A.;

[Twenty-second Congress of the Communist Party of the  
Soviet Union Mine] Rudnik imeni XXII s"ezda KPSS. Moskva,  
MIRA, 1964. 87 p. (MIRA 17:10)

1. Russia (1917- R.S.F.S.R.) Vostochno-Kazakhstanskiy  
ekonomicheskii rayon. Zyr'yanovskiy svintsovyy kombinat.

PUSTOVALOV, A. S.

PAVLENKO, Ivan Antonovich, PUSTOVALOV, A. S., agronom-zootehnik, otvetstvennyy redaktor; VAGANOVA, N.A., redaktor; BOSEOV, G.I., tekhnicheskiy redaktor

[Organizing the fattening of hogs] Iz opyta organizatsii svino-otkorma. Moskva, Gos.izd-vo torg.lit-ry, 1956. 29 p. (MLA 19:10)  
(Swine--Feeding and feeding stuffs)

PAVLENKO, Ivan Antonovich; PUSTOVALOV, A.S., agronom-zootekhnik, otvetstvennyy redaktor; VAGANOVA, N.A., redaktor; ROSLOV, G.I., tekhnicheskii redaktor

[Swine fattening] Iz opyta organizatsii svinootkorma. Moskva, Gos. izd-vo torg.lit-ry, 1956. 29 p. (MIRA 10:7)  
(Swine--Feeding and feeding stuffs)

PUSTOVALOV, D.V.

V.V. Dokuchaev, a great Russian scientist and materialist. *Visnyk*  
AN URSR 28 no.7:43-52 J1 '57. (MIRA 11:1)  
(Dokuchaev, Vasil'evich, 1846-1903)

Pustovalov, G.E.

USSR.

539.153.4 : 539.18:  
3021. Influence of volume on the polarization shift  
of levels in mesic atoms. G. E. PUSTOVALOV. Letter  
in *Zh. eksper. teor. Fiz.*, 27, No. 6(12) 758-61 (1954).  
In Russian.

The shift in  $\mu$ -mesic atoms from vacuum polariza-  
tion is calculated assuming a finite (homogeneous)  
nucleus. For a point nucleus the shift goes as  $Z^2$ ,  
whereas for the finite nucleus it goes roughly linearly  
in  $Z$ .

G. E. BROWN

Physics Inst. im P.N. Lebedev, AS USSR

PUSTOVALOV, G. Ya.

Cold nuclear synthesis. IUn. tekhn. no. 4:20-22 Ap '57. (MLRA 10:6)

1. Sotrudnik kafedry statisticheskoy fiziki i mekhaniki Moskovskogo gosudarstvennogo universiteta.  
(Nuclear reactions)

1

AUTHOR: PUSTOVALOV, G. Ye. 56-6-32/56  
TITLE: Vacuum Polarization in Mesotoms. (Polarizatsiya vakuuma v mezoatomakh, Russian)  
PERIODICAL: Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 32, Nr 6, pp 1519 - 1527 (U.S.S.R.)  
ABSTRACT: The purpose of the present paper is the computation of the shifting of the levels of the meson in the mesotoms as a result of the polarization of the vacuum. For the first 6 levels closed formulae are determined.

Computation of the Shift of Levels: For the computation of the shift of levels in mesotoms as a result of polarization of the vacuum the author takes a FOURIER component of the effective polarization potential in FEYNMAN's form. This polarization potential is induced by an exterior electric field with the FOURIER component of the potential  $\varphi_0(\vec{k})$ . The polarization potential is then written down in coordinate representation. The shifting of the electric level is found by averaging the polarization potential over the wave functions of the meson. This expression for the shifting is then transformed and specialized for a punctiform nucleus. Also expressions for the squares of the wave functions of the higher state are found. If the

Card 1/2